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Oct 1, 2002

DERWENT-ACC-NO: 2002-413837

DERWENT-WEEK: 200268

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TITLE: Formation of image involves transferring image from transfer material into image-receiving material surface using laser light

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PATENT-ASSIGNEE:

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PRIORITY-DATA: 2000JP-0150875 (May 23, 2000), 2000JP-0129445 (April 28, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6458504 B2	October 1, 2002		000	G03F007/34
US 20020009664 A1	January 24, 2002		026	G03F007/34
JP 2001310491 A	November 6, 2001		010	B41J002/32
JP 2001328287 A	November 27, 2001		018	B41J002/32

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6458504B2	April 27, 2001	2001US-0842629	
US20020009664A1	April 27, 2001	2001US-0842629	
JP2001310491A	April 28, 2000	2000JP-0129445	
JP2001328287A	May 23, 2000	2000JP-0150875	

INT-CL (IPC): B41 J 2/32; B41 J 31/00; B41 J 31/05; B41 M 5/26; B41 M 5/40; G03 F 3/10; G03 F 7/34; G03 F 7/38; G03 F 9/00

ABSTRACTED-PUB-NO: US 6458504B

BASIC-ABSTRACT:

NOVELTY - An image is formed by transferring an image from a transfer material into a surface of an image-receiving material using laser light.

DETAILED DESCRIPTION - Formation of an image involves charging, by corona discharge, a coloring material layer surface of a transfer material, which has at least a light-transmissive support, a light-transmissive electro-conductive layer, a light-heat exchange layer and a coloring material layer. An image-receiving layer which has at least a support and an image-receiving material, is superposed with the coloring

material layers surface. A laser light is imagewisely irradiated into the transfer material, transferring an irradiated portion of the coloring material layer of the transfer material to the image-receiving layer surface, for forming the image.

USE - For forming an image, e.g. monochromic image and multi-color image.

ADVANTAGE - The method forms image having high resolution, high quality, and good color tones, without parts missing from the image, even if a transfer material and a image-receiving material are not provided with a cushion layer. It also forms images with stable transfer density on an image-receiving sheet.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the image-forming method of the invention.

ABSTRACTED-PUB-NO:

US20020009664A

EQUIVALENT-ABSTRACTS:

NOVELTY - An image is formed by transferring an image from a transfer material into a surface of an image-receiving material using laser light.

DETAILED DESCRIPTION - Formation of an image involves charging, by corona discharge, a coloring material layer surface of a transfer material, which has at least a light-transmissive support, a light-transmissive electro-conductive layer, a light-heat exchange layer and a coloring material layer. An image-receiving layer which has at least a support and an image-receiving material, is superposed with the coloring material layers surface. A laser light is imagewisely irradiated into the transfer material, transferring an irradiated portion of the coloring material layer of the transfer material to the image-receiving layer surface, for forming the image.

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DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the image-forming method of the invention.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: FORMATION IMAGE TRANSFER IMAGE TRANSFER MATERIAL IMAGE RECEIVE MATERIAL SURFACE LASER LIGHT

DERWENT-CLASS: G05 P75 P84 T04

CPI-CODES: G05-F01;

EPI-CODES: T04-G03B; T04-G07;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-116898

Non-CPI Secondary Accession Numbers: N2002-325277